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Vowel Processing in Cluttered Auditory Scenes

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1. Occlusion or masking of speech information is rather the rule than the exception in natural speech processing. Therefore, speech processing systems should be developed for natural speech conditions.
2. The natural boundaries of sound elements should be captured in the featural representation of speech in systems for automatic speech processing.
3. Harmonic complexes can be a key to solving the lack of robustness in automatic speech processing approaches.
4. Weighting different features according to their acoustical salience is essential for efficient speech processing.
5. Pursuing the reduction of error rates in speech recognition approaches suppresses innovation. Instead it is sometimes needed to step out of a local maximum in order to reach the optimal solution on the long term.
6. Most things exist in gradations. Therefore, categorization incurs costs and should be postponed.
7. An understanding person needs only half a word (Dutch saying).
8. More often than not, speech is noise.